Europäisches Patentamt European Patent Office Office européen des brevets

(11) EP 1 079 615 A3

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: 25.09.2002 Bulletin 2002/39

(51) Int Cl.7: **H04N 5/44**

(43) Date of publication A2: 28.02.2001 Bulletin 2001/09

(21) Application number: 00307289.9

(22) Date of filing: 24.08.2000

(84) Designated Contracting States:

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU

MC NL PT SE

Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 26.08.1999 US 383797 26.08.1999 US 383760

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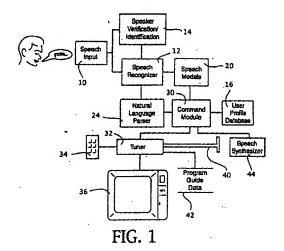
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(54) System for identifying and adapting a TV-user profile by means of speech technology

Speech input supplied by the user is evaluated by the speaker verification/identification module, and based on the evaluation, parameters are retrieved from a user profile database. These parameters adapt the speech models of the speech recognizer and also supply the natural language parser with customized dialog grammars. The user's speech is then interpreted by the speech recognizer and natural language parser to determine the meaning of the user's spoken input in order to control the television tuner. The parser works in conjunction with a command module that mediates the dialog with the user, providing on-screen prompts or synthesized speech queries to elicit further input from the user when needed. The system integrates with an electronic program guide, so that the natural language parser is made aware of what programs are available when conducting the synthetic dialog with the user. Speech can be input through either a microphone or over the telephone. In addition, the user can interact with the system using a suitable computer attached via the Internet. Regardless of the mode of access, the unified access controller interprets the semantic content of the user's request and supplies the appropriate control signals to the television tuner and/or recorder.





EUROPEAN SEARCH REPORT

Application Number EP 00 30 7289

Category	Citation of document with i of relevant pas	ndication, where appropriate, sages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
X Y	WO 96 21990 A (SCIE 18 July 1996 (1996- * abstract *		1-3,8,9, 11-16 4-6,10, 17,21-29	H04N5/44
	* page 16, line 9 - * page 23, line 15 * page 29, line 16 * page 34, line 11 * page 38, line 17 * page 44, line 12 * page 53, line 4 - * page 58, line 1 -	line 12 * - line 16 * - page 11, line 20 * - line 14 * - page 24, line 11 * - page 31, line 4 * - page 36, line 9 * - page 39, line 16 * - page 47, line 5 *		
X	Class W03, AN 1992- XP002204052 ANONYMOUS: "Speech device for multiple	is Ltd., London, GB; 055708 operated remote control uses - uses speech less input and provides		TECHNICAL FIELDS SEARCHED (Int.Ct.7)
Y	* abstract *	HNOLOGY DISCLOSURE,	17, 21-25,28	
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	The present search report has	•		
	Place of search THE HAGUE	Date of completion of the search 1 July 2002	Rem	Framiner witz, P
X : parti Y : parti docu	ATEGORY OF CITED DOCUMENTS cutarly relevant if taken alone cutarly relevant if combined with anot ment of the same category notopical background	T : theory or princip E : earlier patent de after the filling de her D : document cited L : document cited	te underlying the incurrent, but publicate in the application for other reasons	nvention



Application Number EP 00 30 7289

CLAIMS INCURRING FEES
The present European patent application comprised at the time of filling more than ten claims.
Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.
LACK OF UNITY OF INVENTION
The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:
see sheet B
All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



EUROPEAN SEARCH REPORT

Application Number EP 00 30 7289

Category	Citation of document with it of relevant pass	ndication, where appropriate, ages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.7)
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A	WO 98 57501 A (NORT 17 December 1998 (1 * the whole documen	998-12-17)	17-19, 24,25, 28,29	
į				SEARCHED (Int.Cl.7)
	The present search report has	been drawn up for all claims		
	Phase of search THE HAGUE	Date of completion of the searce 1 July 2002	1	Examiner Witz, P
X : part Y : part docu	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone culturly relevant if combined with and ament of the same category notogocal background	T : theory or pr E : earlier pater after the filir b : document c L : document c	inciple underlying the int document, but public g date ited in the application ited for other reasons	nvention



LACK OF UNITY OF INVENTION SHEET B

Application Number

EP 00 30 7289

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-5, 8-16

Speech based audio-visual equipment controller. User's voice identification and commands generation according to stored user's profile.

2. Claims: 6, 7

Speech based audio-visual equipment controller. Storage of customized dialogs and grammars for communication with the user.

3. Claims: 17-29

Speech based audio-visual equipment controller. Remote control by phone of an audio-visual equipment in relation to a stored electronic program guide.

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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 00 30 7289

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82